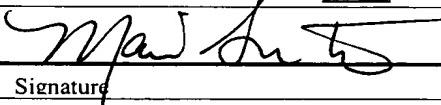


U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (REV. 12-2004)		ATTORNEY'S DOCKET NUMBER <b>A-71606-1/MSS (463035-870)</b>
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/519331</b>
INTERNATIONAL APPLICATION NO. <b>PCT/US2003/19984</b>	INTERNATIONAL FILING DATE <b>June 23, 2003</b>	PRIORITY DATE CLAIMED <b>June 23, 2002</b>
TITLE OF INVENTION <b>METHOD FOR ENERGY-ASSISTED ATOMIC LAYER DEPOSITION AND REMOVAL</b>		
APPLICANT(S) FOR DO/EO/US <b>Aubrey L Helms, Jr., Kerem Kapkin, Sang-In Lee, Yoshihide Senzaki</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> had been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration (unsigned) of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
Items 11 to 20. below concern document(s) or information included:		
<ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 – 1.825</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4)</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information:</li> </ol>		
A copy of Notification of Transmittal of International Search Report, Check no. <u>302265</u> in the amount of <u>\$1840.00</u> , and a return stamped addressed postcard.		

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.5) <b>10/519331</b>		INTERNATIONAL APPLICATION NO. PCT/US2003/19984	ATTORNEY'S DOCKET NUMBER A-71606-1/MSS (463035-870)
21. The following fees are submitted:			
<input checked="" type="checkbox"/> a) Basic national fee .....		\$300.00	\$ 300.00
<input checked="" type="checkbox"/> b) Examination fee .....		\$200.00	\$ 200.00
<input checked="" type="checkbox"/> c) Search Fee .....		\$500.00	\$ 500.00
<b>TOTAL OF ABOVE CALCULATIONS =</b>		<b>\$1000.00</b>	<b>\$ 1,000.00</b>
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.			
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE
25 - 100	0 /50 =		x \$250.00
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	27 -20 =	7	x \$50.00 \$350.00
Independent claims	3 -3 =	0	x \$200.00 \$
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$360.00	\$360.00
<b>TOTAL OF ABOVE CALCULATIONS =</b>		<b>\$1,840.00</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by $\frac{1}{2}$ .			
<b>SUBTOTAL =</b>		<b>\$1,840.00</b>	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).			
<b>TOTAL NATIONAL FEE =</b>		<b>\$1,840.00</b>	
Fee for recording the enclose assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		+	
<b>TOTAL FEES ENCLOSED =</b>		<b>\$1,840.00</b>	
		Amount to be refunded: \$	
		charged: \$	
<p>a. <input checked="" type="checkbox"/> A check in the amount of <u>\$1,840.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of <u>\$</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. <u>50-2319</u> A duplicate coy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>			
NOTE: Where an appropriate time limit under 37 CFR 1.494 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.			
SEND ALL CORRESPONDENCE TO:		CUSTOMER NUMBER <u>32940</u>	
Maria S. Swiatek, Esq. Dorsey & Whitney LLP Intellectual Property Department Four Embarcadero Center, Suite 3400 San Francisco, California 94111-4187 Telephone: (650) 494-8700 Facsimile: (650) 494-8771		 Signature _____ Name _____ Maria S. Swiatek Registration Number: 37,244	

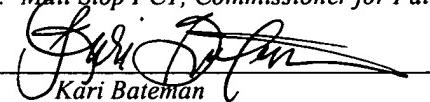
10/519331

**"EXPRESS MAIL" Mailing Label Number EV 182 097 346 US**

Date of Deposit: December 22, 2004

I hereby certify that the below-listed documents are being deposited with the United States Postal Service  
"EXPRESS MAIL POST OFFICE TO ADDRESSEE" service Under 37 CFR 1.10 on the date indicated above and is  
addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

SIGNED:



Kari Bateman